



 PRODUCT-DETAILS

ACS880-34-650A-3

LV AC industrial ultra-low harmonic single drive module, IEC: Pn 355 kW, 650 A, 400 V, NA V (ACS880-34-650A-3)



General Information

Global Commercial Alias	ACS880-34-650A-3
Product ID	3AXD50000199990
ABB Type Designation	ACS880-34-650A-3
EAN	6438177548461

Catalog Description	LV AC industrial ultra-low harmonic single drive module, IEC: Pn 355 kW, 650 A, 400 V, NA V (ACS880-34-650A-3)
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The ACS880-34 drives are customized to meet the particular needs of specific industries, such as oil and gas, mining, metals, chemicals, cement, power plants, material handling, pulp and paper, sawmills, marine, water and wastewater, food and beverage, and automotive. They can control a wide range of applications, including cranes, extruders, winches, winders, conveyors, mixers, compressors, centrifuges, test benches, elevators, extruders, pumps and fans.

Long Description

The compact ACS880-34 ultra-low harmonic drive module produces exceptionally low harmonic content and exceeds the requirements set by low harmonic requirements. The drive includes an active supply unit and integrated low harmonic line filter, meaning there is no need for external filters, multi-pulse arrangements or special transformers. Other features include output voltage boost and power factor correction. These modules are specifically designed for machine builders and systems integrators. Bookshelf variants can easily be pushed inside the cabinet using a pedestal on wheels

Ordering

Customs Tariff Number	85044085
HS Code	850440 -- ELECTRICAL MACHINERY AND EQUIPMENT AND PARTS THEREOF; SOUND RECORDERS AND REPRODUCERS, TELEVISION IMAGE AND SOUND RECORDERS AND REPRODUCERS, AND PARTS AND ACCESSORIES OF SUCH ARTICLES;Electrical transformers, static converters (for example, rectifiers) and inductors;Static converters
Invoice Description	ACS880-34-650A-3 PN: 355 kW, IN: 650 A
Made To Order	Yes
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Quote Only	No
Selling Unit of Measure	piece

Dimensions

Product Net Weight	365 kg 805 lb
Product Net Depth / Length	512 mm 20.157 in
Product Net Height	1741 mm 68.543 in
Product Net Width	713 mm 28.071 in
Package Level 1 Depth / Length	1077.0 mm 42.402 in
Package Level 1 Height	2050.0 mm 80.709 in
Package Level 1 Width	650.0 mm 25.591 in
Package Level 1 Units	1 case

Certificates and Declarations

Declaration of Conformity - CE	3AXD10000497831
REACH Date	20250320
REACH Declaration	9AKK107992A7060
REACH Information	True - contains substances > 0.1 mass percentage
RoHS Date	20240508
RoHS Declaration	3AXD10000497831
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Technical

Number of Phases	3-phase
Degree of Protection	IP20
Enclosure Type NEMA	Open Type
Altitude	4000 m 5 ... 95
Power Factor	1.0
Sound dB (A)	75 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 2 pcs, 6 g

Frequency (f)	47.5 ... 63 Hz
Frame Size	R11
Input Voltage (U_{in})	380 ... 415 V
Mounting Type	Module
Communication Protocol	CAN DeviceNet EtherNet/IP MODBUS Other Bus Systems PROFIsafe PROFIBUS PROFINET IO TCP/IP
Number of Hardware Interfaces	Industrial Ethernet 0 Other 6 Parallel 0 PROFINET 0 RS-232 0 RS-422 0 RS-485 1 Serial TTY 0 USB 1
Includes	Control unit PC connection
Analog Inputs	2
Analog Outputs	2
Number of Digital In/Outputs	6 / 2
Output Current, Normal Use (I_n)	650 A
Output Current, Light-Overload Use (I_{LD})	618 A
Output Current, Heavy-Duty Use (I_{HD})	505 A
Output Power, Normal Use (P_n)	355 kW
Output Power, Light-Overload Use (P_{LD})	355 kW
Output Power, Heavy-Duty Use (P_{HD})	250 kW
Apparent Power Output	11039 W 450 kV-A
Efficiency Level	IE2
Standby Loss	207 W
Complete Drive Module Efficiency (IEC61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	2051 W	92.4 %	0.5 %
0/50 %	2994 W	94.3 %	0.7 %
0/100 %	5498 W	94.7 %	1.2 %
50/25 %	2297 W	95.6 %	0.5 %
50/50 %	3561 W	96.5 %	0.8 %
50/100 %	7329 W	96.4 %	1.6 %
90/50 %	4787 W	97.4 %	1.1 %
90/100 %	11039 W	97.0 %	2.5 %

Temperature Rating Maximum +55 °C
Minimum -15 °C

Ecodesign Exemption Energy efficiency data is not provided for the drive. The low-harmonic drives are exempt from the EU ecodesign requirements (Regulation EU/2019/1781, §2.3.d).

Technical UL

Output Current, Heavy-Duty Use (UL) NA A

External Classifications and Standards

ETIM 9 EC001857 - Frequency converter =< 1 kV
 UNSPSC 39122001

Environmental

SCIP a2cc0b4c-ef99-487b-ac8b-882c86163ef4 Finland
 WEEE Category 4. Large Equipment (Any External Dimension More Than 50 cm)

Categories

Drives → Low Voltage AC Drives → Industrial Drives → ACS880 Drive Modules → ACS880-34 - Ultra-low harmonic single drive module

